

Table 1.— Preliminary estimates of passage by brood-year (BY) and run for unmarked juvenile Chinook salmon and steelhead trout captured by rotary-screw traps at Red Bluff Diversion Dam (RK391), Sacramento River, CA, for the dates listed below. Results include estimated passage, peak river discharge volume, water temperature, turbidity, and fork length (mm) range in parentheses. A dash (-) indicates that sampling was not conducted on that date.

| Date | Discharge volume (cfs) ¹ | Water temperature (°C) | Water turbidity (NTU) | Estimated passage | | | | |
|---|-------------------------------------|------------------------|-----------------------|-------------------|---------------|-----------------|-----------------|---------------|
| | | | | BY11 Winter | BY11 Spring | BY11 Fall | BY11 Late-Fall | BY11 RBT |
| 12/17/2011 | 6,420 | 9.4 | 2.1 | 2,010 (54 – 100) | 0 (–) | 1,150 (32 – 37) | 102 (106 – 153) | 0 (–) |
| 12/18/2011 | 6,380 | 9.4 | – | – | – | – | – | – |
| 12/19/2011 | 6,370 | 9.1 | – | – | – | – | – | – |
| 12/20/2011 | 6,370 | 9.3 | 2.0 | 1,521 (53 – 80) | 121 (39) | 2,684 (31 – 38) | 0 (–) | 0 (–) |
| 12/21/2011 | 6,330 | 9.2 | 2.2 | 2,371 (55 – 103) | 106 (39) | 5,306 (30 – 38) | 139 (107 – 125) | 72 (83 – 85) |
| 12/22/2011 | 6,350 | 8.8 | 2.1 | 1,881 (53 – 102) | 64 (39) | 4,877 (30 – 38) | 191 (114 – 125) | 0 (–) |
| 12/23/2011 | 6,370 | 8.8 | 1.8 | 1,660 (60 – 97) | 33 (39) | 7,135 (31 – 38) | 65 (107 – 113) | 0 (–) |
| 12/24/2011 | 6,350 | 8.8 | 1.7 | 1,651 (54 – 103) | 0 (–) | 9,748 (30 – 38) | 33 (108) | 0 (–) |
| 12/25/2011 | 6,350 | 8.9 | – | – | – | – | – | – |
| 12/26/2011 | 6,350 | 8.9 | – | – | – | – | – | – |
| 12/27/2011 | 6,370 | 9.1 | – | – | – | – | – | – |
| 12/28/2011 | 6,350 | 9.9 | 1.9 | 378 (57 – 91) | 64 (50 – 53) | 6,188 (28 – 38) | 93 (110 – 115) | 0 (–) |
| 12/29/2011 | 6,350 | 10.2 | 2.2 | 496 (62 – 96) | 0 (–) | 4,932 (28 – 39) | 72 (111 – 113) | 0 (–) |
| 12/30/2011 | 6,330 | 10.2 | 2.2 | 129 (63 – 78) | 0 (–) | 3,986 (30 – 40) | 97 (111 – 121) | 32 (94) |
| 12/31/2011 | 6,370 | 9.9 | 1.9 | 404 (59 – 105) | 0 (–) | 9,668 (27 – 40) | 0 (–) | 0 (–) |
| Biweekly Total ² | | | | 18,115 | 557 | 84,846 | 1,168 | 150 |
| <i>Biweekly Lower 90% Confidence Interval</i> | | | | -28,469 | -4,026 | -137,981 | 458 | -2,257 |
| <i>Biweekly Upper 90% Confidence Interval</i> | | | | 64,699 | 5,140 | 307,673 | 1,878 | 2,557 |
| Brood Year Total | | | | 822,581 | 88,598 | 93,035 | 96,244 | 56,117 |
| <i>Brood year Lower 90% Confidence Interval</i> | | | | 585,771 | 64,906 | 59,942 | 20,152 | 22,655 |
| <i>Brood year Upper 90% Confidence Interval</i> | | | | 1059392 | 112,289 | 126,128 | 172,336 | 89,580 |

¹ Peak daily discharge values do not account for diversions at RBDD and only represent peak flows registered at the Bend Bridge Gauging station (<http://cdec2.water.ca.gov/cgi-progs/queryFx?bnd>).

² Biweekly totals may be greater than the sum of the daily estimates presented in this table if sampling was not conducted on each day of the biweekly period. A dash (-) denotes those dates. To estimate daily passage for days that were not sampled, we impute missed sample days with the weekly mean value of days sampled within the week.

Juvenile Winter Chinook Salmon Estimated Passage

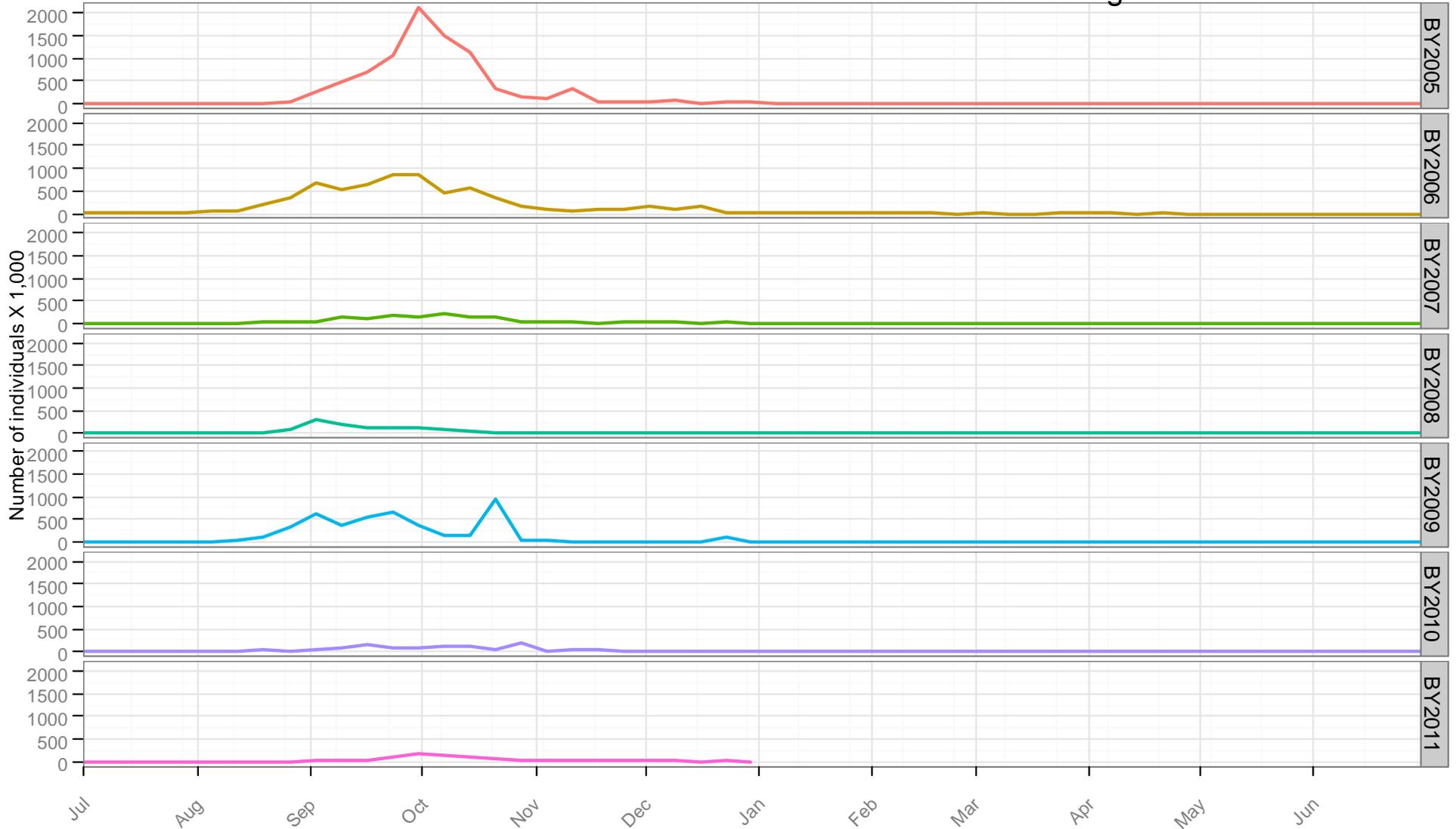


Figure 1. Weekly estimated passage of juvenile winter Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period July 1 2005 to present .

Juvenile Spring Chinook Salmon Estimated Passage

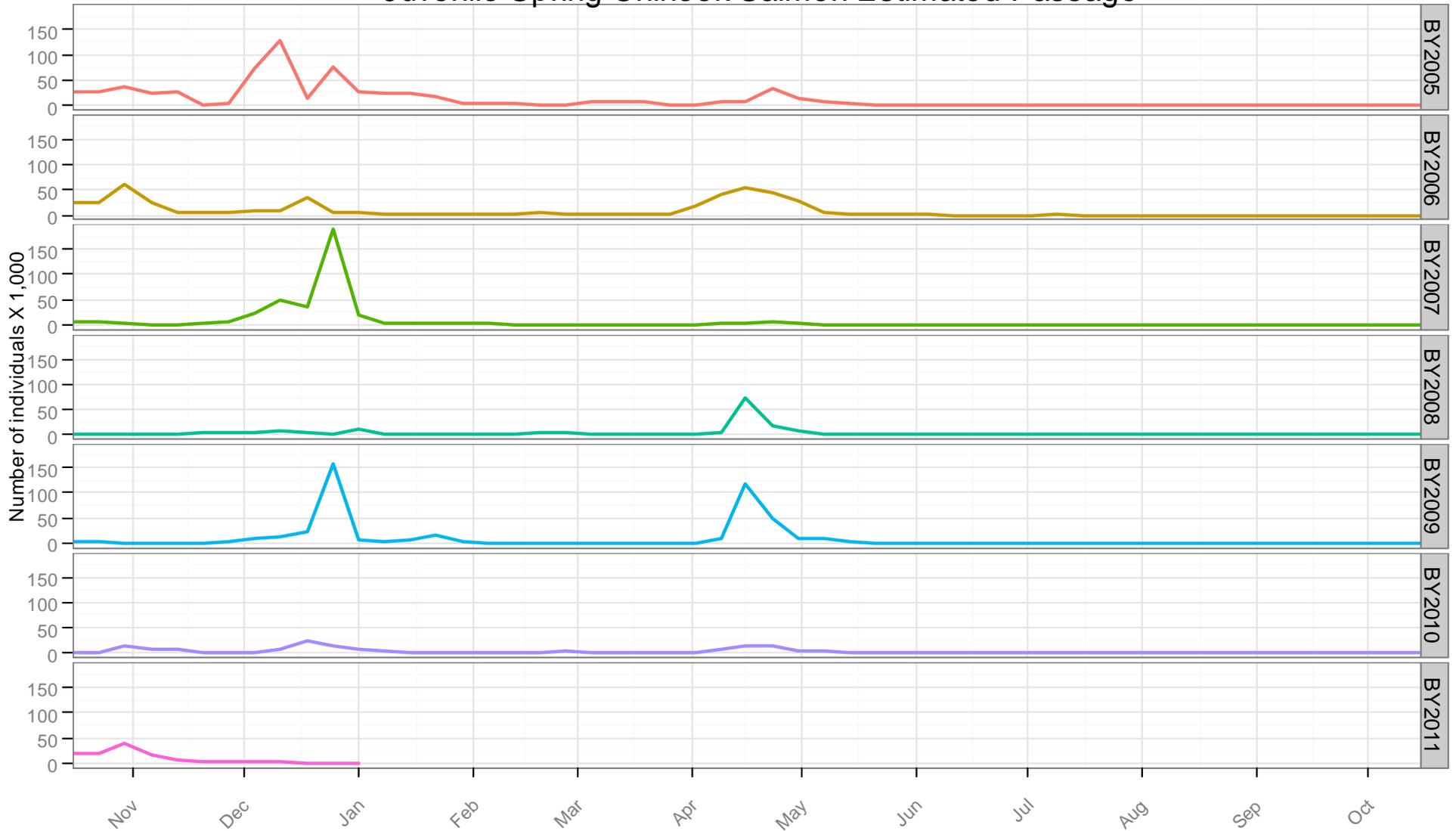


Figure 2. Weekly estimated passage of juvenile Spring Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period October 16 2005 to present .

Juvenile *Onchorhynchus mykiss* Estimated Passage

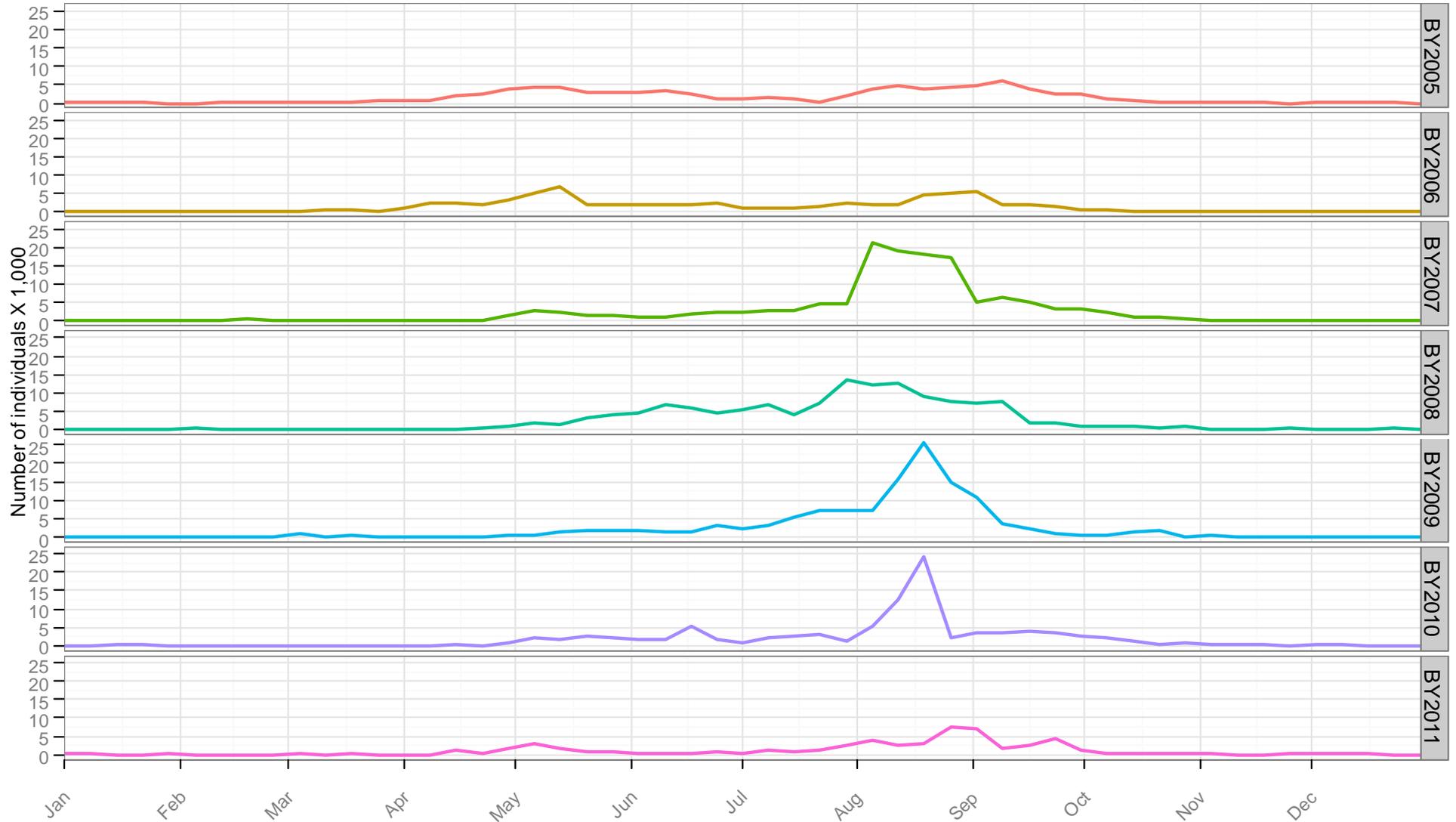


Figure 3. Weekly estimated passage of juvenile Rainbow/Steelhead trout at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period January 1 2005 to present .

Juvenile Fall Chinook Salmon Estimated Passage

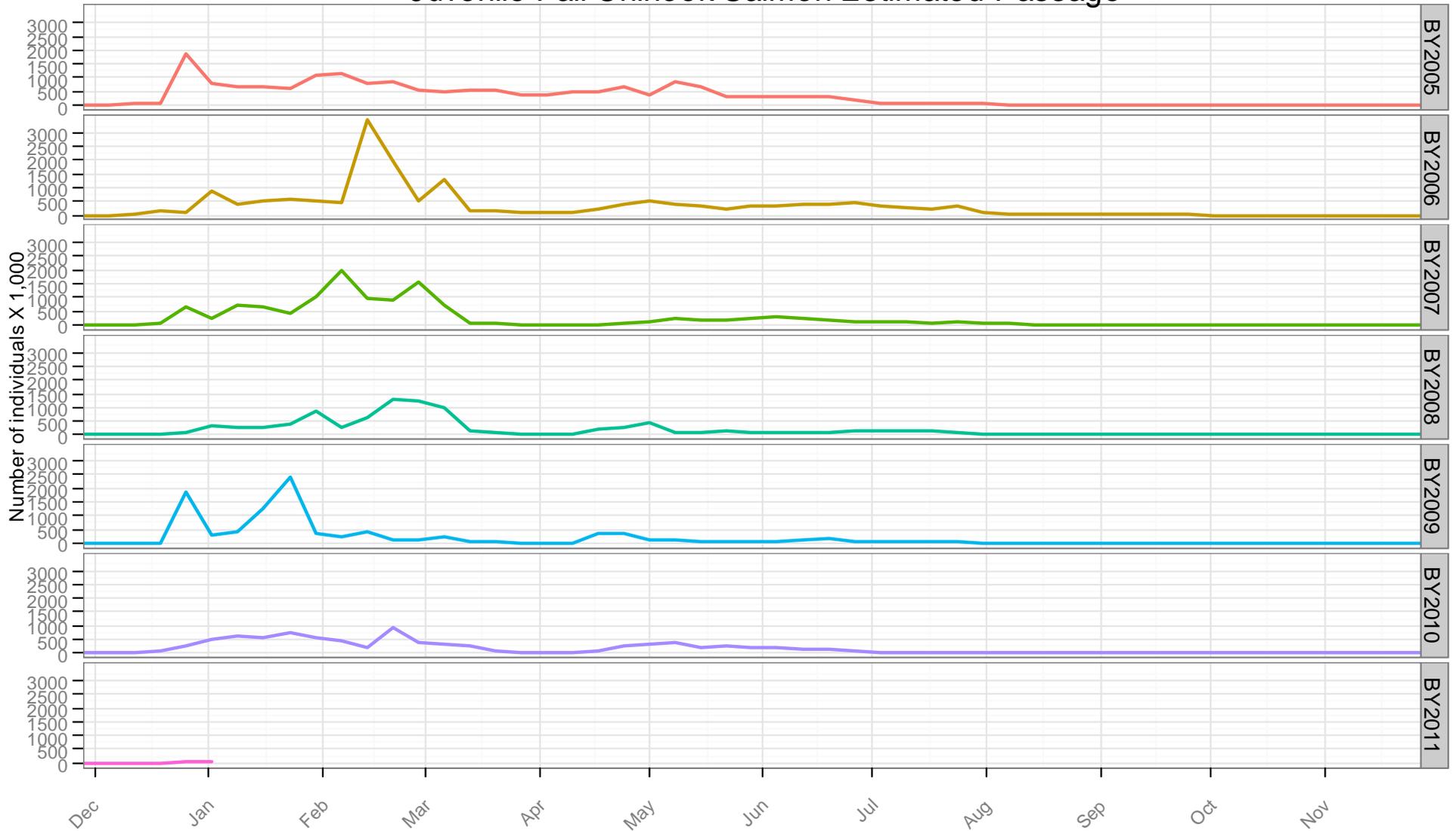


Figure 4. Weekly estimated passage of juvenile Fall Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period December 1 2005 to present .

Juvenile Late Fall Chinook Salmon Estimated Passage

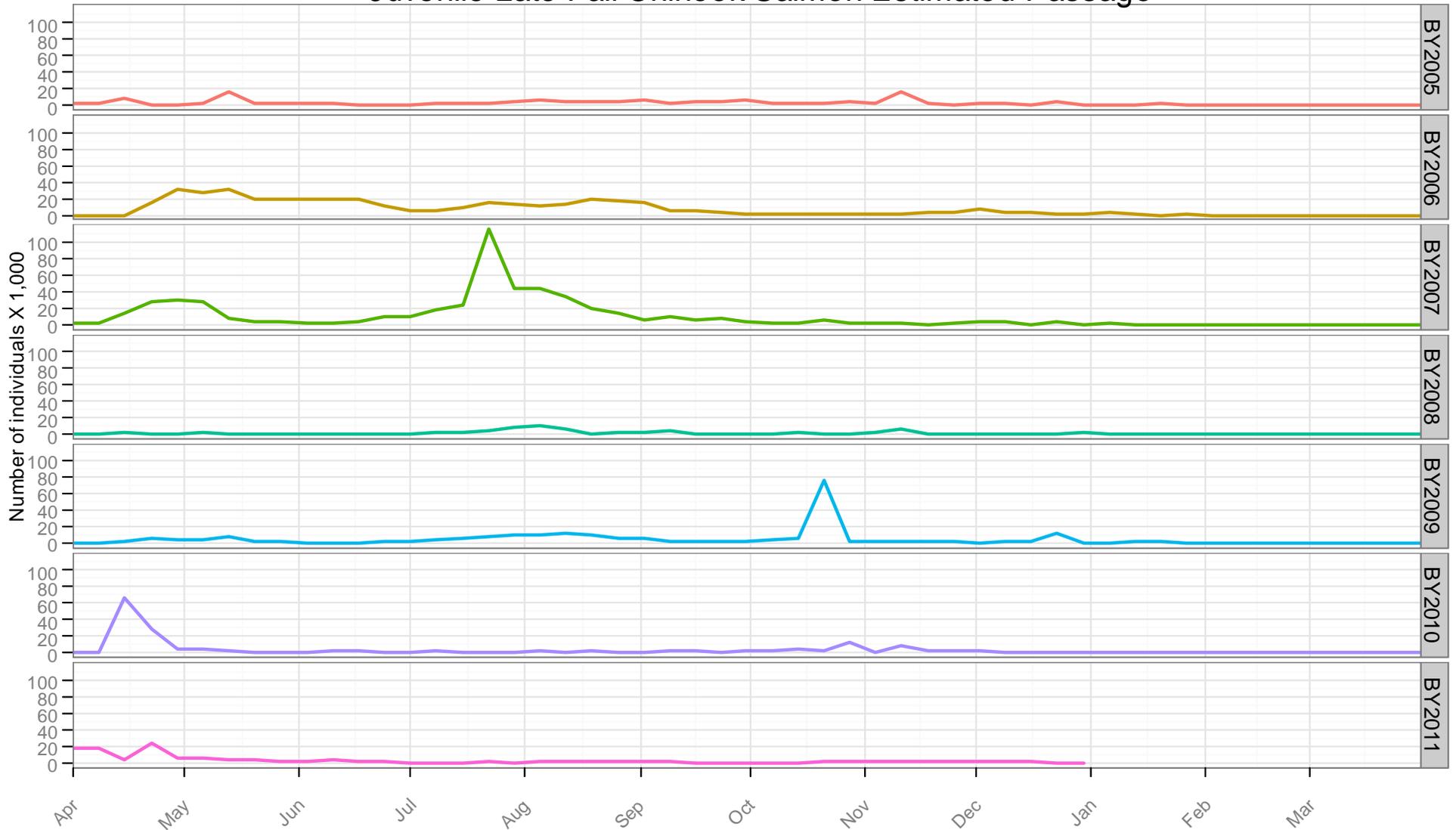


Figure 5. Weekly estimated passage of juvenile Late Fall Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period April 1 2005 to present .

Weekly Estimated Chinook Passage at Red Bluff Diversion Dam - All Runs Combined

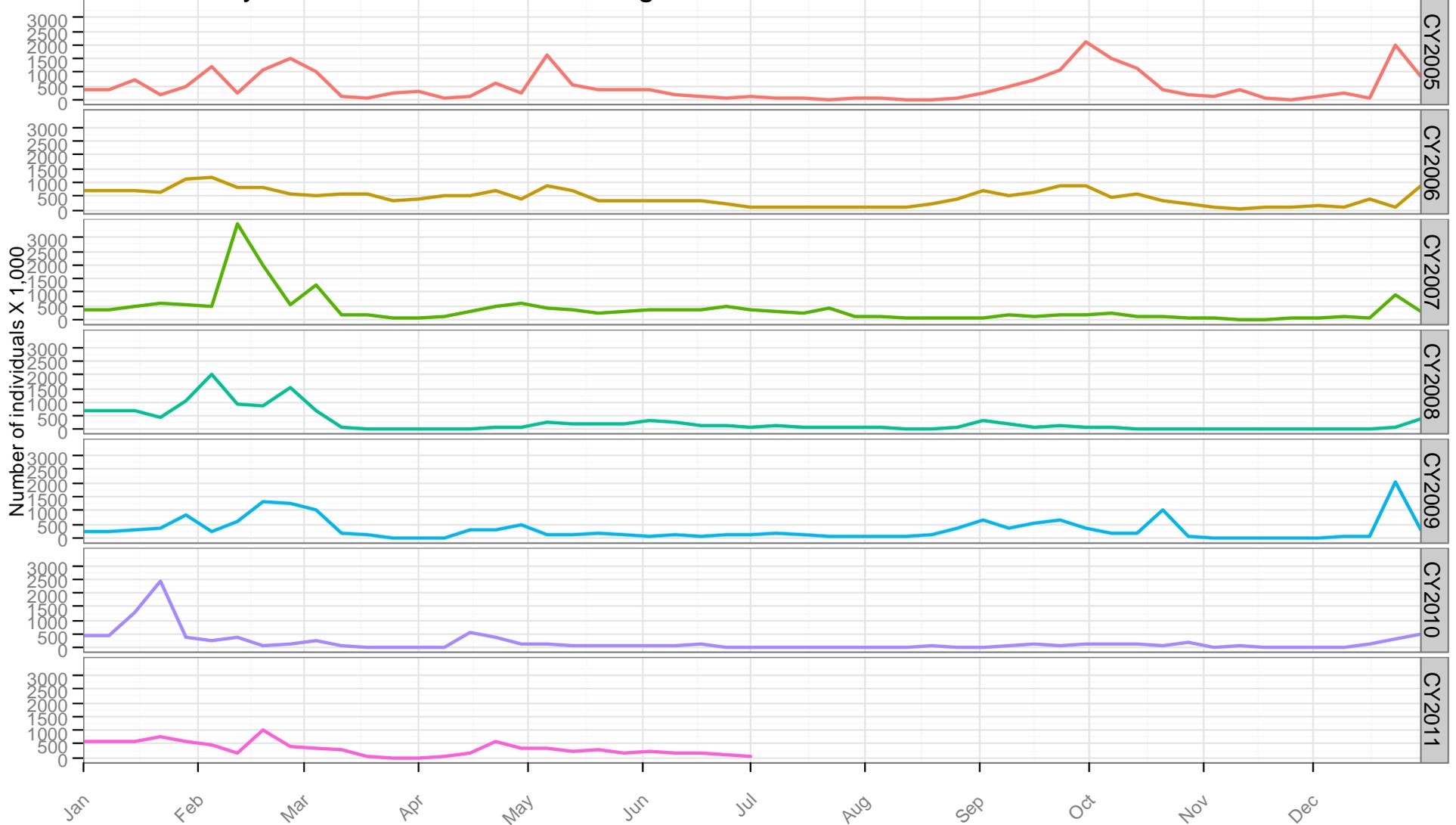


Figure 6. Weekly estimated passage of juvenile Chinook Salmon at Red Bluff Diversion Dam (RK391), by calendar year. Fish were sampled using rotary-screw traps for the period January 1 2005 to June 30 2011